

NO 1999-2701

A 19990603

AI	
AU 1997-43104	A 19970919
AU 1998-53305	A 19971219
DE 1997-69702673	A 19971219
EP 1997-919171	A 19970919
EP 1997-950296	A 19971219
GB 1996-19699	A 19960920
GB 1996-26442	A 19961220
GB 1997-26974	A 19971219
GB 1999-5764	A 19970919
NO 1999-2701	A 19990603
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WO 1997-GB2536	A 19970919
WO 1997-GB3507	A 19971219

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AU 9743104	A1 19980414
AU 734810	B2 20010621
AU 9853305	A1 19980717
DE 69702673	CO 20000831
DE 69702673	T2 20010405
EP 932843	A1 19990804
EP 939910	A1 19990908
EP 939910	B1 20000726
GB 9619699	A0 19961106
GB 9626442	A0 19970205
GB 2331971	A1 19990609
GB 2331971	B2 19991117
GB 9726974	A0 19980218
GB 2332275	A1 19990616
GB 2332275	B2 20010214
GB 9905764	A0 19990505
NO 310127	B1 20010521
NO 9902701	A 19990603
NO 9902701	A0 19990603
US 6353577	BA 20020305
US 2002126575	AA 20020912
WO 9812577	A1 19980326
WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

28-342-0373
 JOHN Bouchard
 713-513-2515
 WO 98128636 = PCT GB97103507

① WO A 97 30361
 ② US 5619474

③ US 3774570

④ US 5443024

⑤ EP A-0193215

⑥ US 4745683

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 WO 9621163

WO 98 28636

PCT GB97 103507

INS

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20 Dec 1990 Dec Page 1 Patent Date

① 09 189 3 234

June 26, 2001

↳ C08 of

09/284,030

APRIL 06, 1999

↳ 371 of

Foreign Application

UK 9626442.9

6353577 2A01

DEC 170 / 1996

PCT
FILED

19 Dec 1997

↳ WO 98/28636

July 02, 1998

PCT GB971035073

FILE Dec 20, 1997

PRIORITY TO 9626442.9

Dates

↳ UK 9726974.0

FILE Dec 19, 1997

↳ GB 2331971

PUBDATE

June 06, 1999

FILE

19 Dec 1997

WO 9812577

WO 9828636

L2 ANSWER 1 OF 9 WPIX COPYRIGHT 2003 THOMSON DERWENT on STN
 AN 1998-377798 [32] WPIX
 DNN N1998-295320
 TI Control device for marine seismic streamer - has attached control device with controllable wings which are rotated to control lateral position and depth.
 DC S03 V06 W06
 IN BITTLESTON, S H
 PA (SLMB) SCHLUMBERGER HOLDINGS LTD; (SLMB) SERVICES PETROL SCHLUMBERGER; (GECO-N) GECO AS; (BITT-I) BITTLESTON S H
 CYC 79
 PI WO 9828636 A1 19980702 (199832)* EN 16p
 RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA
 PT SD SE SZ UG ZW
 W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GE GH
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 AU 9853305 A 19980717 (199848)
 GB 2331971 A 19990609 (199925)
 NO 9902701 A 19990603 (199937)
 EP 939910 A1 19990908 (199941) EN
 R: DE FR IT NL SE
 GB 2331971 B 19991117 (199951)
 EP 939910 B1 20000726 (200036) EN
 R: DE FR IT NL SE
 DE 69702673 E 20000831 (200050)
 NO 310127 B1 20010521 (200131)
 AU 734810 B 20010621 (200141)
 US 2002126575 A1 20020912 (200262)
 ADT WO 9828636 A1 WO 1997-GB3507 19971219; AU 9853305 A AU 1998-53305 19971219; GB 2331971 A GB 1997-26974 19971219; NO 9902701 A WO 1997-GB3507 19971219, NO 1999-2701 19990603; EP 939910 A1 EP 1997-950296 19971219, WO 1997-GB3507 19971219; GB 2331971 B GB 1997-26974 19971219; EP 939910 B1 EP 1997-950296 19971219, WO 1997-GB3507 19971219; DE 69702673 E DE 1997-602673 19971219, EP 1997-950296 19971219, WO 1997-GB3507 19971219; NO 310127 B1 WO 1997-GB3507 19971219, NO 1999-2701 19990603; AU 734810 B AU 1998-53305 19971219; US 2002126575 A1 Cont of US 1999-284030 19990406, US 2001-893234 20010626
 FDT AU 9853305 A Based on WO 9828636; EP 939910 A1 Based on WO 9828636; EP 939910 B1 Based on WO 9828636; DE 69702673 E Based on EP 939910, Based on WO 9828636; NO 310127 B1 Previous Publ. NO 9902701; AU 734810 B Previous Publ. AU 9853305, Based on WO 9828636
 PRAI **GB 1996-26442 19961220**
 AB WO 9828636 A UPAB: 19980812
 The marine seismic streamer is an elongated cable-like structure which is typically several thousand meters long, and contains an array of hydrophones and electronic equipment. The streamer control device (10) has an elongated streamlined body (12) which is mechanically and electrically connected in series with a multi-section streamer (14).
 Each end of the body has a connector (16,18). The device has two opposed control surfaces or wings (24), typically moulded from fibre-reinforced plastics, projecting outwards from the body. A control system (26) rotates the wings to control the lateral position and the depth of the streamer.
 ADVANTAGE - Improves the control of the lateral position and depth of the streamer.
 Dwg.1/5
 PI WO 9828636 A1 19980702 (199832)* EN 16p G01V001-38
 RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA

STIC SEARCH
 Keep in File

PT SD SE SZ UG ZW
 W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GE GH
 HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
 ZW

AU 9853305 A 19980717 (199848) G01V001-38
 GB 2331971 A 19990609 (199925) G01V001-20
 NO 9902701 A 19990603 (199937) G01V001-38
 EP 939910 A1 19990908 (199941) EN
 R: DE FR IT NL SE
 GB 2331971 B 19991117 (199951) G01V001-38
 EP 939910 B1 20000726 (200036) EN G01V001-38
 R: DE FR IT NL SE
 DE 69702673 E 20000831 (200050) G01V001-38
 NO 310127 B1 20010521 (200131) G01V001-20
 AU 734810 B 20010621 (200141) G01V001-38
 US 2002126575 A1 20020912 (200262) G01V001-38

ADT WO 9828636 A1 WO 1997-GB3507 19971219; AU 9853305 A AU 1998-53305
 19971219; GB 2331971 A GB 1997-26974 19971219; NO 9902701 A WO 1997-GB3507
 19971219, NO 1999-2701 19990603; EP 939910 A1 EP 1997-950296 19971219, WO
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 1997-602673 19971219, EP 1997-950296 19971219, WO 1997-GB3507 19971219; NO
 310127 B1 WO 1997-GB3507 19971219, NO 1999-2701 19990603; AU 734810 B AU
 1998-53305 19971219; US 2002126575 A1 Cont of US 1999-284030 19990406, US
 2001-893234 20010626

FDT AU 9853305 A Based on WO 9828636; EP 939910 A1 Based on WO 9828636; EP
 939910 B1 Based on WO 9828636; DE 69702673 E Based on EP 939910, Based on
 WO 9828636; NO 310127 B1 Previous Publ. NO 9902701; AU 734810 B Previous
 Publ. AU 9853305, Based on WO 9828636

PRAI GB 1996-26442 19961220

L2 ANSWER 2 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 1

AN 184480215 INPADOC ED 20021002 EW 200239 UP 20021002 UW 200239
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN BITTLESTON SIMON HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA BITTLESTON SIMON HASTINGS
 PAS BITTLESTON SIMON HASTINGS
 PAA NO
 DT Patent
 PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
 PI US 2002126575 AA 20020912
 AI US 2001-893234 A 20010626
 PRAI US 2001-893234 A 20010626
 GB 1996-26442 A 19961220
 US 1999-284030 B1 19990406
 AB A control device or "bird" for controlling the position of a marine seismic streamer is provided with an elongate, partly flexible body which is designed to be electrically and mechanically connected in series with a streamer. In its preferred form, the bird has two opposed wings which are independently controllable in order to control the streamer's lateral position as well as its depth.

PATENT FAMILY INFORMATION

AN 184480215 INPADOC

+-----PRAI-----+
GB 1996-19699 A 19960920+-----AI-----+
AU 1997-43104 A 19970919

EP 1997-919171 A 19970919

GB 1996-19699 A 19960920

GB 1997-26974 A 19971219

GB 1999-5764 A 19970919

US 1999-269016 A 19990317

WO 1997-GB2536 A 19970919

GB 1996-26442 A 19961220

AU 1998-53305 A 19971219

DE 1997-69702673 A 19971219

EP 1997-950296 A 19971219

GB 1996-26442 A 19961220

GB 1997-26974 A 19971219

NO 1999-2701 A 19990603

US 2001-893234 A 20010626

WO 1997-GB3507 A 19971219

US 1999-284030 B1 19990406

US 2001-893234 A 20010626

US 2001-893234 A 20010626

AU 1997-43104 A 19970919

WO 1997-GB2536 W 19970919

EP 1997-919171 A 19970919

US 2001-893234 A 20010626

GB 1999-5764 A 19970919

US 2001-893234 A 20010626

US 1999-269016 A 19990317

WO 1997-GB3507 W 19971219

AU 1998-53305 A 19971219

AU 1997-43104 A 19970919

DE 1997-69702673 A 19971219

AU 1997-43104 A 19970919

EP 1997-950296 A 19971219

DE 1997-69702673 A 19971219

NO 1999-2701 A 19990603

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AU 1997-43104 A 19970919

AU 9743104 A1 19980414

AU 1998-53305 A 19971219

AU 734810 B2 20010621

DE 1997-69702673 A 19971219

AU 9853305 A1 19980717

DE 1997-69702673 A 19971219

DE 69702673 C0 20000831

EP 1997-919171	A 19970919	DE 69702673	T2 20010405
EP 1997-950296	A 19971219	EP 932843	A1 19990804
		EP 939910	A1 19990908
		EP 939910	B1 20000726
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		GB 9905764	AO 19990505
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		NO 9902701	AO 19990603
US 1999-269016	A 19990317	US 6353577	BA 20020305
US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 3 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 2
 AN 134498850 INPADOC ED 20010410 EW 200114 UP 20010410 UW 200114
 TI STEUERGERAETE ZUR POSITIONSSTEUERUNG EINES MEERESSEISMISCHES MESSKABELS
 IN BITTLESTON, HASTINGS
 INS BITTLESTON HASTINGS
 INA NO
 PA SERVICES PETROLIERS SCHLUMBERGER, PARIS; SCHLUMBERGER HOLDINGS LTD., ROAD
 TOWN
 PAS SCHLUMBERGER SERVICES PETROL; SCHLUMBERGER HOLDINGS
 PAA FR; VG
 DT Patent
 PIT DET2 TRANSL. OF THE EUROPEAN PATENT SPECIFICATION
 PI DE 69702673 T2 20010405
 AI DE 1997-69702673 A 19971219
 PRAI GB 1996-26442 A 19961220
 WO 1997-GB3507 W 19971219

PATENT FAMILY INFORMATION

AN 134498850 INPADOC

+-----PRAI-----+
GB 1996-19699 A 19960920+-----AI-----+
AU 1997-43104 A 19970919

EP 1997-919171 A 19970919

GB 1996-19699 A 19960920

GB 1997-26974 A 19971219

GB 1999-5764 A 19970919

US 1999-269016 A 19990317

WO 1997-GB2536 A 19970919

GB 1996-26442 A 19961220

AU 1998-53305 A 19971219

DE 1997-69702673 A 19971219

EP 1997-950296 A 19971219

GB 1996-26442 A 19961220

GB 1997-26974 A 19971219

NO 1999-2701 A 19990603

US 2001-893234 A 20010626

WO 1997-GB3507 A 19971219

US 1999-284030 B1 19990406

US 2001-893234 A 20010626

US 2001-893234 A 20010626

US 2001-893234 A 20010626

WO 1997-GB2536 W 19970919

AU 1997-43104 A 19970919

EP 1997-919171 A 19970919

GB 1999-5764 A 19970919

US 1999-269016 A 19990317

WO 1997-GB3507 W 19971219

AU 1998-53305 A 19971219

DE 1997-69702673 A 19971219

EP 1997-950296 A 19971219

NO 1999-2701 A 19990603

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AU 1997-43104 A 19970919

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AU 9743104 A1 19980414

AU 1998-53305 A 19971219

AU 734810 B2 20010621

DE 1997-69702673 A 19971219

AU 9853305 A1 19980717

DE 1997-69702673 C0 20000831

DE 69702673 T2 20010405

EP 1997-919171 A 19970919

EP 932843 A1 19990804

EP 1997-950296 A 19971219

EP 939910 A1 19990908

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EP 939910 B1 20000726

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GB 9626442 A0 19970205

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GB 1999-5764	A 19970919	GB 2332275	A1 19990616
		GB 2332275	B2 20010214
		GB 9905764	AO 19990505
NO 1999-2701	A 19990603	NO 310127	B1 20010521
		NO 9902701	A 19990603
		NO 9902701	AO 19990603
US 1999-269016	A 19990317	US 6353577	BA 20020305
US 2001- <u>893234</u>	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 4 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 2

AN 112919635 INPADOC ED 20000801 EW 200030 UP 20000801 UW 200030
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN BITTLESTON, SIMON, HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA SCHLUMBERGER HOLDINGS LIMITED; SERVICES PETROLIERS SCHLUMBERGER
 PAS SCHLUMBERGER HOLDINGS; SCHLUMBERGER SERVICES PETROL
 PAA VG; FR
 TL English; French; German
 LA English
 DT Patent
 PIT EPB1 PATENT
 PI EP 939910 B1 20000726
 DS R: DE FR IT NL SE
 AI EP 1997-950296 A 19971219
 PRAI WO 1997-GB3507 W 19971219
 GB 1996-26442 A 19961220

PATENT FAMILY INFORMATION

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GB 1996-19699	A 19960920	AU 1997-43104	A 19970919
		EP 1997-919171	A 19970919
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		GB 1997-26974	A 19971219
		GB 1999-5764	A 19970919
		US 1999-269016	A 19990317
		WO 1997-GB2536	A 19970919
GB 1996-26442	A 19961220	AU 1998-53305	A 19971219
		DE 1997-69702673	A 19971219
		EP 1997-950296	A 19971219
		GB 1996-26442	A 19961220
		GB 1997-26974	A 19971219
		NO 1999-2701	A 19990603
		US 2001-893234	A 20010626
		WO 1997-GB3507	A 19971219
US 1999-284030	B1 19990406	US 2001-893234	A 20010626
US 2001-893234	A 20010626	US 2001-893234	A 20010626
WO 1997-GB2536	W 19970919	AU 1997-43104	A 19970919
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WO 1997-GB3507	W 19971219	AU 1998-53305	A 19971219
		DE 1997-69702673	A 19971219
		EP 1997-950296	A 19971219
		NO 1999-2701	A 19990603
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AU 1997-43104	A 19970919	AU 9743104	A1 19980414
AU 1998-53305	A 19971219	AU 734810	B2 20010621
DE 1997-69702673	A 19971219	AU 9853305	A1 19980717
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		GB 2332275	B2 20010214
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US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 5 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 4

AN 111417686 INPADOC ED 20010709 EW 200127 UP 20010709 UW 200127
 TI KONTROLLINNRETNINGER FOR AA KONTROLLERE BAADE HORISONTAL OG VERTIKAL
 POSISJONEN FOR EN MARIN SEISMISK STREAMER
 IN BITTLESTON, SIMON HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA SCHLUMBERGER HOLDINGS LTD
 PAS SCHLUMBERGER HOLDINGS
 PAA VG
 DT Patent
 PIT NOB1 GRANTED PATENT (LAW 1997)
 PI NO 310127 B1 20010521
 AI NO 1999-2701 A 19990603
 PRAI GB 1996-26442 A 19961220
 WO 1997-GB3507 W 19971219

PATENT FAMILY INFORMATION

AN 111417686 INPADOC

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GB 1996-19699 A 19960920+-----+AI-----+
AU 1997-43104 A 19970919
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 GB 1996-19699 A 19960920
 GB 1997-26974 A 19971219
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
 WO 1997-GB2536 A 19970919

GB 1996-26442 A 19961220

AU 1998-53305 A 19971219
 DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 GB 1996-26442 A 19961220
 GB 1997-26974 A 19971219
 NO 1999-2701 A 19990603
 US 2001-893234 A 20010626
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 US 2001-893234 A 20010626
 WO 1997-GB2536 W 19970919US 2001-893234 A 20010626
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 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317

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AU 1998-53305 A 19971219
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 AU 1998-53305 A 19971219+-----+PI-----+
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 AU 734810 B2 20010621
 AU 9853305 A1 19980717

DE 1997-69702673 A 19971219

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 DE 69702673 T2 20010405

EP 1997-919171 A 19970919

EP 932843 A1 19990804

EP 1997-950296 A 19971219

EP 939910 A1 19990908

GB 1996-19699 A 19960920

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		NO 9902701	AO 19990603
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US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 6 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 2

AN 48900033 INPADOC ED 20010730 EW 200130 UP 20010730 UW 200130
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN SIMON HASTINGS BITTLESTON
 INS BITTLESTON SIMON HASTINGS
 PA SCHLUMBERGER HOLDINGS LIMITED
 PAS SCHLUMBERGER HOLDINGS
 DT Patent
 PIT AUB2 PATENT (APP. ADVERTISED ACCEPTED)
 PI AU 734810 B2 20010621
 AI AU 1998-53305 A 19971219
 PRAI GB 1996-26442 A 19961220
 WO 1997-GB3507 W 19971219

PATENT FAMILY INFORMATION

AN 48900033 INPADOC

+-----PRAI-----+
 GB 1996-19699 A 19960920

+-----AI-----+
 AU 1997-43104 A 19970919
 EP 1997-919171 A 19970919
 GB 1996-19699 A 19960920
 GB 1997-26974 A 19971219
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
 WO 1997-GB2536 A 19970919

GB 1996-26442 A 19961220

AU 1998-53305 A 19971219
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 EP 1997-950296 A 19971219
 GB 1996-26442 A 19961220
 GB 1997-26974 A 19971219
 NO 1999-2701 A 19990603

US 1999-284030 B1 19990406
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 AU 1997-43104 A 19970919
 EP 1997-919171 A 19970919
 GB 1999-5764 A 19970919

WO 1997-GB3507 W 19971219

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 DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 NO 1999-2701 A 19990603

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 AU 1997-43104 A 19970919
 AU 1998-53305 A 19971219

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 AU 734810 B2 20010621
 AU 9853305 A1 19980717

DE 1997-69702673 A 19971219

DE 69702673 C0 20000831

EP 1997-919171 A 19970919
 EP 1997-950296 A 19971219

DE 69702673 T2 20010405
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 EP 939910 A1 19990908

GB 1996-19699 A 19960920
 GB 1996-26442 A 19961220
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 GB 2331971 A1 19990609
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US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 7 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 1
 AN 47322455 INPADOC EW 199829 UP 20011203 UW 200148
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN BITTLESTON, SIMON, HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA GECO AS; BITTLESTON, SIMON, HASTINGS
 PAS GECO AS; BITTLESTON SIMON HASTINGS
 PAA NO; NO
 TL English; French
 LA English
 DT Patent
 PIT WO/A1 PUBL.OF THE INT.APPL. WITH INT.SEARCH REPORT
 PI WO 9828636 A1 19980702
 DS RW: GH GM KE LS MW SD SZ UG ZW AT BE CH DE DK ES FI FR GB GR IE IT LU MC
 NL
 W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GE GH HU
 IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
 PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AM AZ
 BY KG KZ MD RU TJ TM
 AI WO 1997-GB3507 A 19971219
 PRAI GB 1996-26442 A 19961220
 OSDW 98-377798
 AB A control device (10) (or "bird") for controlling the position of a marine seismic streamer is provided with an elongate, partly flexible, body (12) which is designed to be connected electrically and mechanically in series with the streamer (14). In its preferred form, the bird has two opposed wings (24), which are independently controllable in order to control the streamers lateral position, as well as its depth.

PATENT FAMILY INFORMATION

AN 47322455 INPADOC

PRAI		AI	
GB 1996-19699	A 19960920	AU 1997-43104	A 19970919
		EP 1997-919171	A 19970919
		GB 1996-19699	A 19960920
		GB 1997-26974	A 19971219
		GB 1999-5764	A 19970919
		US 1999-269016	A 19990317
		WO 1997-GB2536	A 19970919
GB 1996-26442	A 19961220	AU 1998-53305	A 19971219
		DE 1997-69702673	A 19971219
		EP 1997-950296	A 19971219
		GB 1996-26442	A 19961220
		GB 1997-26974	A 19971219
		NO 1999-2701	A 19990603
		US 2001-893234	A 20010626
		WO 1997-GB3507	A 19971219
US 1999-284030	B1 19990406	US 2001-893234	A 20010626
US 2001-893234	A 20010626	US 2001-893234	A 20010626
WO 1997-GB2536	W 19970919	AU 1997-43104	A 19970919
		EP 1997-919171	A 19970919
		GB 1999-5764	A 19970919
		US 1999-269016	A 19990317
WO 1997-GB3507	W 19971219	AU 1998-53305	A 19971219
		DE 1997-69702673	A 19971219
		EP 1997-950296	A 19971219

		NO 1999-2701	A 19990603
-----AI-----		-----PI-----	
AU 1997-43104	A 19970919	AU 9743104	A1 19980414
AU 1998-53305	A 19971219	AU 734810	B2 20010621
DE 1997-69702673	A 19971219	AU 9853305	A1 19980717
EP 1997-919171	A 19970919	DE 69702673	CO 20000831
EP 1997-950296	A 19971219	DE 69702673	T2 20010405
GB 1996-19699	A 19960920	EP 932843	A1 19990804
GB 1996-26442	A 19961220	EP 939910	A1 19990908
GB 1997-26974	A 19971219	EP 939910	B1 20000726
GB 1999-5764	A 19970919	GB 9619699	AO 19961106
NO 1999-2701	A 19990603	GB 9626442	AO 19970205
US 1999-269016	A 19990317	GB 2331971	A1 19990609
US 2001-893234	A 20010626	GB 2331971	B2 19991117
WO 1997-GB2536	A 19970919	GB 9726974	AO 19980218
WO 1997-GB3507	A 19971219	GB 2332275	A1 19990616
		GB 2332275	B2 20010214
		GB 9905764	AO 19990505
		NO 310127	B1 20010521
		NO 9902701	A 19990603
		NO 9902701	AO 19990603
		US 6353577	BA 20020305
		US 2002126575	AA 20020912
		WO 9812577	A1 19980326
		WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 8 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 3

AN 41972116 INPADOC ED 19991130 EW 199947 UP 20011203 UW 200148
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN SIMON HASTINGS * BITTLESTON
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA * GECO A S; * SCHLUMBERGER HOLDINGS LIMITED
 PAS GECO AS; SCHLUMBERGER HOLDINGS
 PAA NO; VG
 DT Patent
 PIT GBB2 PATENT GRANTED
 PI GB 2331971 B2 19991117
 AI GB 1997-26974 A 19971219
 PRAI GB 1996-26442 A 19961220
 GB 1996-19699 A 19960920

PATENT FAMILY INFORMATION

AN 41972116 INPADOC

-----PRAI-----+
 GB 1996-19699 A 19960920

-----AI-----+
 AU 1997-43104 A 19970919

EP 1997-919171 A 19970919

GB 1996-19699 A 19960920

GB 1997-26974 A 19971219

GB 1999-5764 A 19970919

US 1999-269016 A 19990317

WO 1997-GB2536 A 19970919

AU 1998-53305 A 19971219

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GB 1996-26442 A 19961220

GB 1997-26974 A 19971219

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US 2001-893234 A 20010626

WO 1997-GB3507 A 19971219

GB 1996-26442 A 19961220

US 2001-893234 A 20010626

US 2001-893234 A 20010626

US 1999-284030 B1 19990406

AU 1997-43104 A 19970919

US 2001-893234 A 20010626

EP 1997-919171 A 19970919

WO 1997-GB2536 W 19970919

GB 1999-5764 A 19970919

US 1999-269016 A 19990317

WO 1997-GB3507 W 19971219

AU 1998-53305 A 19971219

DE 1997-69702673 A 19971219

EP 1997-950296 A 19971219

NO 1999-2701 A 19990603

-----AI-----+
 AU 1997-43104 A 19970919

AU 9743104 A1 19980414

AU 1998-53305 A 19971219

AU 734810 B2 20010621

DE 1997-69702673 A 19971219

AU 9853305 A1 19980717

DE 69702673 DE 69702673

DE 69702673 CO 20000831

EP 1997-919171 A 19970919

EP 932843 T2 20010405

EP 1997-950296 A 19971219

EP 939910 A1 19990804

GB 1996-19699 A 19960920

EP 939910 A1 19990908

GB 1996-26442 A 19961220

GB 9626442 B1 20000726

GB 1997-26974 A 19971219

GB 9619699 A0 19961106

GB 2331971 A0 19970205

GB 2331971 A1 19990609

GB 1999-5764	A 19970919	GB 2331971	B2 19991117
		GB 9726974	AO 19980218
		GB 2332275	A1 19990616
		GB 2332275	B2 20010214
		GB 9905764	AO 19990505
NO 1999-2701	A 19990603	NO 310127	B1 20010521
		NO 9902701	A 19990603
		NO 9902701	AO 19990603
US 1999-269016	A 19990317	US 6353577	BA 20020305
US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 9 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 1

AN 19448004 INPADOC
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 PA GECO A S
 PAS GECO AS
 DT Patent
 PIT GBA0 APPLICATION FOR PATENT
 PI GB 9626442 A0 19970205
 AI GB 1996-26442 A 19961220
 PRAI GB 1996-26442 A 19961220

PATENT FAMILY INFORMATION

AN 19448004 INPADOC

+-----PRAI-----+
 GB 1996-19699 A 19960920

+-----AI-----+
 AU 1997-43104 A 19970919
 EP 1997-919171 A 19970919

GB 1996-26442 A 19961220

AU 1998-53305 A 19971219

US 1999-284030 B1 19990406
 US 2001-893234 A 20010626
 WO 1997-GB2536 W 19970919

DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 GB 1996-26442 A 19961220
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 NO 1999-2701 A 19990603
 US 2001-893234 A 20010626
 WO 1997-GB3507 A 19971219

WO 1997-GB3507 W 19971219

US 2001-893234 A 20010626
 US 2001-893234 A 20010626
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 EP 1997-919171 A 19970919
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
 WO 1997-GB3507 A 19971219

+-----AI-----+
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 AU 1998-53305 A 19971219
 DE 1997-69702673 A 19971219
 EP 1997-919171 A 19970919
 EP 1997-950296 A 19971219
 GB 1996-19699 A 19960920
 GB 1996-26442 A 19961220
 GB 1997-26974 A 19971219

+-----PI-----+
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 AU 734810 B2 20010621

GB 1999-5764 A 19970919

AU 9853305 A1 19980717
 DE 69702673 C0 20000831
 DE 69702673 T2 20010405

EP 932843 A1 19990804
 EP 939910 A1 19990908
 EP 939910 B1 20000726

GB 9619699 A0 19961106
 GB 9626442 A0 19970205
 GB 2331971 A1 19990609

GB 2331971 B2 19991117
 GB 9726974 A0 19980218
 GB 2332275 A1 19990616

GB 2332275 B2 20010214
 GB 9905764 A0 19990505

25/07/2003

NO 1999-2701	A 19990603	NO 310127	B1 20010521
		NO 9902701	A 19990603
		NO 9902701	AO 19990603
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US 2001-893234	A 20010626	US 2002126575	AA 20020912
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6 priorities, 14 applications, 23 publications